Volume 39 (2007)

Ahmad, Z. *see* Sharif, M. 1331
Aichelburg, P. C. *see* Balasin, H. 1075
Aktas, C., Yilmaz, İ. Magnetized quark and strange quark matter in the spherical symmetric space–time admitting conformal motion 849
Alaña, V., Flores, J. L. The causal boundary of product spacetimes 1697
Alba, D., Lusanna, L. The York map as a Shanmugadhasan canonical transformation in tetrad gravity and the role of non-inertial frames in the geometrical view of the gravitational field 2149
Aldrovandi, R., Cuzinatto, R. R., Medeiros, L. G. Primeval symmetries 1813
Allemandi, G., Ruggiero, M. L. Constraining extended theories of gravity using Solar System tests 1381
Aloma, E. *see* Esculpi, M. 633
Amir, M. J. *see* Sharif, M. 705
Amir, M. J. *see* Sharif, M. 989
Andrew, K., Bolen, B., Middleton, C. A. Solutions of higher dimensional Gauss–Bonnet FRW cosmology 2061
Ansorg, M. *see* Labranche, H. 129
Avgoustidis, A., Cremades, D., Quevedo, F. Wilson line inflation 1203
Böhmer, C. G., Harko, T. Minimum mass–radius ratio for charged gravitational objects 757
Balasin, H., Aichelburg, P. C. Canonical formulation of pp-waves 1075
Ballón Bayona, C. A., Braga, N. R. F. Anti-de Sitter boundary in Poincaré coordinates 1367
Barreto, W., Rodríguez, B., Rosales, L., Serrano, O. Self-similar and charged radiating spheres: an anisotropic approach 537
Barreto, W., Rodríguez, B., Rosales, L., Serrano, O. Self-similar and charged radiating spheres: an anisotropic approach 23
Barrow, J. D., Shaw, D. J. Observable effects of scalar fields and varying constants 1235
Bayer, J., Dyer, C. C. Maximal lensing: mass constraints on point lens configurations 1413
Benedetti, D., Loll, R. Quantum gravity and matter: counting graphs on causal dynamical triangulations 863
Benesh, G. A., Wang, A. Homothetic self-similar solutions of three-dimensional Brans-Dicke gravity 277
Benhar, O., Ferrari, V., Gualtieri, L., Marassi, S. Quark matter imprint on gravitational waves from oscillating stars 1323
Berchtold, J. B., Scharf, G. Quantum gravitational bremsstrahlung: massless versus massive gravity 1489
Bezares-Roder, N. M., Dehnen, H. Higgs scalar–tensor theory for gravity and the flat rotation curves of spiral galaxies 1259

Bojowald, M. Quantum gravity: by Carlo Rovelli 223
Bokhari, A. H., Kara, A. H. Noether versus Killing symmetry of conformally flat Friedmann metric 2053
Bolós, V. J. Stability between foliations in general relativity 9
Bolen, B. *see* Andrew, K. 2061
Bonanno, A., Esposito, G., Rubano, C., Scudellaro, P. Noether symmetry approach in matter-dominated cosmology with variable G and Λ 189
Bonnor, W. B. The charged line-mass in general relativity 257
Braga, N. R. F. *see* Ballón Bayona, C. A. 1367
Brian Edgar, S., Machado Ramos, M. P. Type O pure radiation metrics with a cosmological constant 1749
Brandt, C. F. C., Chan, R., da Silva, M. A. F., Villas da Rocha, J. F. Inhomogeneous dark energy and cosmological acceleration 1675
Bretón, N. *see* López, L. A. 153
Brewin, L. A simple expression for the ADM mass 521
Bronnikov, K. A., Dehnen, H., Melnikov, V. N. Regular black holes and black universes 973
Brown, R. A. Brane universes with Gauss-Bonnet-induced-gravity 477
Burton, D. A. Nicholas M. J. Woodhouse: General Relativity 1967
Cabezas, J. A., Martín, J., Molina, A., Ruiz, E. An approximate global solution of Einstein's equations for a rotating finite body 707
Camacho, A., Macías, A. Thermodynamics of a photon gas and deformed dispersion relations 1175
Capovilla, R., Guven, J. Yang–Mills theory à la string 1135
Carlip, S. Symmetries, horizons, and black hole entropy 1519
Chakrabarti, S. K. Quasinormal modes for tensor and vector type perturbation of Gauss Bonnet black hole using third order WKB approach 567
Chakraborti, S. *see* Rahaman, F. 945
Chan, R. *see* Brandt, C. F. C. 1675
Chauvineau, B. Stationarity and large ω Brans–Dicke solutions versus general relativity 297
Chen, D., Yang, S. Charged particle tunnels from the stationary and non-stationary Kerr–Newman black holes 1503
Chen, Y., Chen, Z., Wang, J. Deflection in higher-order gravitational lensing 401
Chen, Z. *see* Chen, Y. 401
Cheng, H. *see* Gu, Z. 1
Choudhury, T. R., Padmanabhan, T. Concept of temperature in multi-horizon spacetimes: analysis of Schwarzschild–De Sitter metric 1789
Christensen Jr, W. J. Normal coordinates describing coupled oscillations in the gravitational field 105
Collas, P., Klein, D. A statistical mechanical problem in Schwarzschild spacetime 737
Cox, D. P. G. How far is 'infinity'? 87
Cremades, D. *see* Avgoustidis, A. 1203
Cuzinatto, R. R. *see* Aldrovandi, R. 1813
da Rocha-Neto, J. F. *see* Maluf, J. W. 227
da Silva, M. A. F. *see* Brandt, C. F. C. 1675
D'Abrusco, R. *see* Serpico, M. 1551
de Araujo, J. C. N., Miranda, O. D. A solution for galactic disks with Yukawian gravitational potential 777
de M. Carvalho, A. M., Furtado, C. Holonomy transformation in the FRW metric 1311
Dehnen, H. *see* Bezares-Roder, N. M. 1259
Dehnen, H. *see* Bronnikov, K. A. 973
Denef, F., Moore, G. W. How many black holes fit on the head of a pin? 1539
Dermer, C. D. *see* Menon, G. 785
Dittrich, B. Partial and complete observables for Hamiltonian constrained systems 1891
Dyer, C. C. *see* Bayer, J. 1413
Dyer, C. C. *see* Wilson, B. 2001

Edgar, S. B., Machado Ramos, M. P. Obtaining a class of type O pure radiation metrics with a negative cosmological constant, using invariant operators 539
Ehlers, J. *see* Sachs, R. K. 1929
Ellis, G. F. R., Nicolai, H. Editorial note: The issue of plagiarism 1969
Ellis, G. F. R. Note on varying speed of light cosmologies 511
Ellis, G. F. R. On the definition of distance in general relativity: I. M. H. Etherington (*Philosophical Magazine* ser. 7, vol. 15, 761 (1933)) 1047
Ellis, G. F. R., Maartens, R., MacCallum, M. A. H. Causality and the speed of sound 1651
Ellis, G. *see* Sachs, R. K. 1929
Esculpi, M., Malaver, M., Aloma, E. A comparative analysis of the adiabatic stability of anisotropic spherically symmetric solutions in general relativity 633
Esposito, G. *see* Bonanno, A. 189
Etherington, I. M. H. Republication of: LX. On the definition of distance in general relativity 1055
Fairbairn, W. J. Fermions in three-dimensional spinfoam quantum gravity 427
Faraoni, V. A common misconception about *LIGO* detectors of gravitational waves 677
Fernández, I., Mira, P. Complete maximal surfaces in static Robertson–Walker 3-spaces 2073
Ferrando, J. J., Sáez, J. A. Rainich theory for type D aligned Einstein–Maxwell solutions 2039
Ferrando, J. J., Sáez, J. A. On the space-times admitting two shear-free geodesic null congruences 343
Ferrari, V. *see* Benhar, O. 1323
Fewster, C. J. Quantum energy inequalities and local covariance II: categorical formulation 1855
Flores, J. L. *see* Alaña, V. 1697
Fomalont, E. B. *see* Kopeikin, S. M. 1583
Frønsdal, C. Ideal stars and General Relativity 1971
Fu, M. H. *see* Wu, Y. B. 653
Furtado, C. *see* de M. Carvalho, A. M. 1311
Gambini, R., Porto, R. A., Pullin, J. Fundamental decoherence from quantum gravity: a pedagogical review 1143
García, A. A., Tellez Ulloa, J. Stationary perfect fluid solutions with differential rotation 1639
García-Colín, L. S. *see* Sandoval-Villalbazo, A. 1287
García-Perciante, A. L. *see* Sandoval-Villalbazo, A. 1287
García-Perciante, A. L. *see* Sandoval-Villalbazo, A. 2017
Ghosh, A. *see* Rahaman, F. 145
Goenner, H. Relativity. Special, general, and cosmological: By Wolfgang Rindler 535
Gu, Z., Cheng, H. The circular loop equation of a cosmic string in Kerr–de Sitter spacetimes 1
Gualtieri, L. *see* Benhar, O. 1323
Gubser, S. S. Heavy ion collisions and black hole dynamics 1533
Gui, Y. *see* Zhang, Y. 1003
Guven, J. *see* Capovilla, R. 1135
Harada, T., Mahajan, A. Analytical solutions for black-hole critical behaviour 1847
Harko, T. *see* Böhmer, C. G. 757
Havrdová, L., Krtouš, P. Melvin universe as a limit of the C-metric 291
He, J. *see* Wu, Y. B. 653
Helfer, A. D. Angular momentum of isolated systems 2125
Hernández, F. J., Quevedo, H. Entropy and anisotropy 1297
Ho, P.-M., Matsuo, Y. A toy model of open membrane field theory in constant 3-form flux 913
Hurley, D. J., Vandyck, M. A. A geometrical framework for dyons in the presence of the dilaton and the axion in four dimensions 1689
Iyer, S. V., Petters, A. O. Light's bending angle due to black holes: from the photon sphere to infinity 1563
Jalalzadeh, S. Non-integrability and Mach's principle in induced matter theory 387
Jalalzadeh, S. *see* Khosravi, N. 899

Jalalzadeh, S. *see* Moyassari, P. 1467
Joshi, P. S. *see* Mahajan, A. 825
Kalam, M. *see* Rahaman, F. 145
Kalam, M. *see* Rahman, F. 945
Kaloper, N., Terning, J. How black holes form in high energy collisions 1525
Kalyana Rama, S. Entropy of anisotropic universe and fractional branes 1773
Kara, A. H. *see* Bokhari, A. H. 2053
Kaya, R. Motion of charged particles in a spacetime of a five dimensional rotating black hole in a magnetic field 211
Khosravi, N., Jalalzadeh, S., Sepangi, H. R. Quantum noncommutative multidimensional cosmology 899
Klein, D. *see* Collas, P. 737
Komathiraj, K., Maharaj, S. D. Classes of exact Einstein–Maxwell solutions 2079
Kopeikin, S. M., Fomalont, E. B. Gravimagnetism, causality, and aberration of gravity in the gravitational light-ray deflection experiments 1583
Korotkin, D. Ernst equation and Riemann surfaces. Analytical and numerical methods: By Christian Klein and Olaf Richter 695
Krasiński, A. Golden Oldies – a reactivation 1043
Krasiński, A. I. M. H. Etherington: a brief biography 1053
Krasiński, A. *see* Sachs, R. K. 1929
Krauss, L. M., Scherrer, R. J. The return of a static universe and the end of cosmology 1545
Kremer, G. M. Dark energy interacting with neutrinos and dark matter: a phenomenological theory 965
Krtouš, P. *see* Havrdová, L. 291
Lämmerzahl, C., Macias, A. Preface: Octavio Obregón at 60 1073
López, L. A., Bretón, N. Asymptotic singular behaviour of inhomogeneous cosmologies in Einstein-Maxwell-dilaton-axion theory 153
López-Ortega, A. Dirac quasinormal modes of D-dimensional de Sitter spacetime 1011
Labranche, H., Petroff, D., Ansorg, M. The parametric transition of strange matter rings to a black hole 129
Letelier, P. S. *see* Rosa, V. M. 1419
Letelier, P. S. *see* Ujevic, M. 1345
Li, F. *see* Zhang, Y. 1003
Li, H.-L., Qi, D.-J., Yang, S.-Z. Massive particle's tunneling radiation from higher-dimensional Schwarzchild de Sitte and Anti-de Sitter black holes 179
Li, S. *see* Wu, Y. B. 653
Liu, H. *see* Liu, M. 1389
Liu, M., Liu, H., Luo, F., Xu, L. The real solution to scalar field equation in 5D black string space 1389
Loll, R. *see* Benedetti, D. 863
Longo, G. *see* Serpico, M. 1551
Louko, J. Abhay Ashtekar (ed): 100 years of relativity. Spacetime structure: Einstein and beyond 1517
Luo, F. *see* Liu, M. 1389
Lusanna, L. *see* Alba, D. 2149
Maartens, R. *see* Ellis, G. F. R. 1651
Macías, A. *see* Camacho, A. 1175
MacCallum, M. A. H. *see* Ellis, G. F. R. 1651
Machado Ramos, M. P. *see* Brain Edgar, S. 1749
Macias, A. *see* Lämmerzahl, C. 1073
Mahajan, A., Joshi, P. S. Rebounce and black hole formation in a gravitational collapse model with vanishing radial pressure 825
Mahajan, A. *see* Harada, T. 1847
Maharaj, S. D. *see* Komathiraj, K. 2079
Majumdar, A. S. *see* Mukherjee, N. 583
Malaver, M. *see* Esculpi, M. 633

Maluf, J. W., Veiga, M. V. O., da Rocha-Neto, J. F. Regularized expression for the gravitational energy-momentum in teleparallel gravity and the principle of equivalence 227
Marassi, S. *see* Benhar, O. 1323
Martín, J. *see* Cabezas, J. A. 707
Mashhoon, B., Wesson, P. An embedding for general relativity and its implications for new physics 1403
Masood-ul-Alam, A. K. M. Proof that static stellar models are spherical 55
Matolcsi, M. *see* Matolcsi, T. 413
Matolcsi, T., Matolcsi, M., Tasnádi, T. On the relation of Thomas rotation and angular velocity of reference frames 413
Matos, T., Ureña–López, L. A. Flat rotation curves in scalar field galaxy halos 1279
Matsuo, Y. *see* Ho, P.-M. 913
Medeiros, L. G. *see* Aldrovandi, R. 1813
Melnikov, V. N. *see* Bronnikov, K. A. 973
Menon, G., Dermer, C. D. A class of exact solutions to the force-free, axisymetric, stationary magnetosphere of a Kerr black hole 785
Middleton, C. A. *see* Andrew, K. 2061
Mignemi, S. Asymptotic properties of black hole solutions in dimensionally reduced Einstein–Gauss–Bonnet gravity 815
Mira, P. *see* Fernández, I. 2073
Miranda, O. D. *see* de Araujo, J. C. N. 777
Molina, A. *see* Cabezas, J. A. 707
Molladavoudi, S. *see* Shojai, F. 795
Montemayor, R., Urrutia, L. F. Phenomenological description of quantum gravity inspired modified classical electrodynamics 1157
Moore, G. W. *see* Denef, F. 1539
Morales-Técotl, H. A., Pedraza, O., Pimentel, L. O. Low-energy effects in brane worlds: Liennard–Wiechert potentials and Hydrogen Lamb shift 1185
Morgan, D., Thom, S., Winstanley, E., Young, P. M. Some general properties of the renormalized stress-energy tensor for static quantum states on $(n + 1)$-dimensional spherically symmetric black holes 1719
Moyassari, P., Jalalzadeh, S. Semiclassical corrections to the Einstein equation and Induced Matter Theory 1467
Mukherjee, N., Majumdar, A. S. Particle motion and gravitational lensing in the metric of a dilaton black hole in a de Sitter universe 583
Nakayama, Y. Finite N index and angular momentum bound from gravity 1625
Natário, J. Quasi-Maxwell interpretation of the spin–curvature coupling 1477
Negi, P. S. The stability of an isentropic model for a gaseous relativistic star 529
Nicolai, H. *see* Ellis, G. F. R. 1969
Nieto, J. A. Towards an Ashtekar formalism in 12 dimensions 1109
Nozari, K., Sefidgar, A. S. On the existence of the logarithmic correction term in black hole entropy-area relation 501
Ortíz, L., Ryan Jr, M. P. Quantum collapse of dust shells in 2+1 gravity 1087
Padmanabhan, T. *see* Choudhury, T. R. 1789
Pedraza, O. *see* Morales-Técotl, H. A. 1185
Perlick, V. Torsten Asselmeyer-Maluga and Carl Brans: Exotic smoothness and physics 1963
Petroff, D. *see* Labranche, H. 129
Petters, A. O. *see* Iyer, S. V. 1563
Pfister, H. On the history of the so-called Lense-Thirring effect 1735
Pimentel, L. O. *see* Morales-Técotl, H. A. 1185
Porto, R. A. *see* Gambini, R. 1143
Pullin, J. *see* Gambini, R. 1143
Qi, D.-J. *see* Li, H.-L. 179
Quevedo, F. *see* Avgoustidis, A. 1203
Quevedo, H. *see* Hernández, F. J. 1297
Rahaman, F., Kalam, M., Rahman, K. A., Chakraborti, S. A theoretical construction of thin shell wormhole from tidal charged black hole 945

Rahaman, F., Kalam, M., Sarker, M., Ghosh, A., Raychaudhuri, B. Wormhole with varying cosmological constant 145
Rahman, K. A. *see* Rahaman, F. 945
Ramos, M. P. M. *see* Edgar, S. B. 539
Raychaudhuri, B. *see* Rahaman, F. 145
Rideout Jr, G. M. 1949–2008 Fifty-nine years Gravity Research Foundation P.O. Box 81389, Wellesley Hills, MA 02481-0004, USA Founded by Roger W. Babson 2205
Rodríguez, B. *see* Barreto, W. 537
Rodríguez, B. *see* Barreto, W. 23
Rosa, V. M., Letelier, P. S. Stability of closed timelike curves in the Gödel universe 1419
Rosales, L. *see* Barreto, W. 537
Rosales, L. *see* Barreto, W. 23
Rovelli, C., Speziale, S. On the expansion of a quantum field theory around a topological sector 167
Rubano, C. *see* Bonanno, A. 189
Ruggiero, M. L. *see* Allemandi, G. 1381
Ruiz, E. *see* Cabezas, J. A. 707
Ryan, Jr, M. P. *see* Ortíz, L. 1087
Sáez, J. A. *see* Ferrando, J. J. 343
Sáez, J. A. *see* Ferrando, J. J. 2039
Sachs, R. K., Wolfe, A. M., Ellis, G., Ehlers, J., Krasiński, A. Republication of: Perturbations of a cosmological model and angular variations of the microwave background (By R.K. Sachs and A.M. Wolfe) 1929
San Miguel, A. Numerical determination of time transfer in general relativity 2025
Sandoval-Villalbazo, A., García-Perciante, A. L., García-Colín, L. S. Hyperbolic heat equation in Kaluza's magnetohydrodynamics 1287
Sandoval-Villalbazo, A., García-Perciante, A. L. Gravitational instability of a dilute fully ionized gas in the presence of the Dufour effect 2017
Sarker, M. *see* Rahaman, F. 145
Scharf, G. *see* Berchtold, J. B. 1489
Scherrer, R. J. *see* Krauss, L. M. 1545
Scudellaro, P. *see* Bonanno, A. 189
Sefidgar, A. S. *see* Nozari, K. 501
Senovilla, J. M. M. Symmetric hyperbolic systems for a large class of fields in arbitrary dimension 361
Senovilla, J. M. M. The Schwarzschild solution: corrections to the editorial note 685
Sepangi, H. R. *see* Khosravi, N. 899
Serpico, M., D'abrusco, R., Longo, G., Stornaiolo, C. Cosmological black holes as voids progenitors: simulations 1551
Serrano, O. *see* Barreto, W. 537
Serrano, O. *see* Barreto, W. 23
Sharif, M., Ahmad, Z. High-speed cylindrical collapse of two perfect fluids 1331
Sharif, M., Amir, M. J. Teleparallel versions of Friedmann and Lewis-Papapetrou spacetimes 705
Sharif, M., Amir, M. J. Teleparallel version of the stationary axisymmetric solutions and their energy contents 989
Sharif, M., Sheikh, U. Cold plasma dispersion relations in the vicinity of a Schwarzschild black hole horizon 1437
Sharif, M., Sheikh, U. Effects of Schwarzschild black hole horizon on isothermal plasma wave dispersion 2095
Shaw, D. J. *see* Barrow, J. D. 1235
Sheikh, U. *see* Sharif, M. 1437
Sheikh, U. *see* Sharif, M. 2095
Shojai, F., Molladavoudi, S. Quantum cosmology with varying speed of light and Bohmian trajectories 795
Singh, H. 3-Branes on Eguchi–Hanson 6D instantons 839
Smolyakov, M. N. Consistent ADD scenario with stabilized extra dimension 41

Sorge, F., Zilio, S. Gyroscopic precession in non-circular orbits: a phase-locked tetrad approach 957
Speziale, S. *see* Rovelli, C. 167
Srivastava, S. K. Quantum driven bounce of the future universe 241
Stornaiolo, C. *see* Serpico, M. 1551
Tasnádi, T. *see* Matolcsi, T. 413
Tellez Ulloa, J. *see* García, A. A. 1639
Terning, J. *see* Kaloper, N. 1525
Thom, S. *see* Morgan, D. 1719
Tod, P. Analyticity of strictly static and strictly stationary, inheriting and non-inheriting Einstein–Maxwell solutions 1031
Tod, P. Conditions for non-existence of static or stationary, Einstein–Maxwell, non-inheriting black-holes 111
Torrome, R. G. On a covariant version of Caianiello's model 1833
Trimble, V. New books about Fred Hoyle 699
Ujevic, M., Letelier, P. S. Stability of general relativistic static thick disks: the isotropic Schwarzschild thick disk 1345
Ureña–López, L. A. *see* Matos, T. 1279
Urrutia, L. F. *see* Montemayor, R. 1157
Uzan, J.-P. The acceleration of the universe and the physics behind it 307
Vandyck, M. A. *see* Hurley, D. J. 1689
Varela, V. Neutral perfect fluids and charged thin shells with electromagnetic mass in general relativity 267
Veiga, M. V. O. *see* Maluf, J. W. 227
Villas da Rocha, J. F. *see* Brandt, C. F. C. 1675
Vuille, C. Exact solutions for the massless plane symmetric scalar field in general relativity, with cosmological constant 621
Wang, A., Wu, Y. Kink stability of self-similar solutions of scalar field in 2+1 gravity 663
Wang, A. *see* Benesh, G. A. 277
Wang, J. *see* Chen, Y. 401
Wess, J. Differential calculus and gauge transformations on a deformed space 1121
Wesson, P. *see* Mashhoon, B. 1403
Will, C. M. *see* Zeng, J. 1661
Wilson, B., Dyer, C. C. A Galaxy-like perturbation of the Robertson–Walker metric 2001
Winstanley, E. *see* Morgan, D. 1719
Wolfe, A. M. *see* Sachs, R. K. 1929
Woolgar, E. P. Florides, B. Nolan, A. Ottewil (eds): General relativity and gravitation. Proceedings of GR17 1069
Wu, Y. B., Li, S., Fu, M. H., He, J. A modified Chaplygin gas model with interaction 653
Wu, Y. *see* Wang, A. 663
Xu, L. *see* Liu, M. 1389
Yang, S. *see* Chen, D. 1503
Yang, S.-Z *see* Li, H.-L. 179
Yazadjiev, S. S. Rotating dyonic dipole black rings: exact solutions and thermodynamics 601
Yilmaz, İ. *see* Aktas, C. 849
Young, P. M. *see* Morgan, D. 1719
Yu, F. *see* Zhang, Y. 1003
Zeng, J., Will, C. M. Application of energy and angular momentum balance to gravitational radiation reaction for binary systems with spin-orbit coupling 1661
Zhang, Y., Gui, Y., Yu, F., Li, F. Quasinormal modes of a Schwarzschild black hole surrounded by free static spherically symmetric quintessence: electromagnetic perturbations 1003
Zilio, S. *see* Sorge, F. 957